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# Appendix D

#### **Cabling Installation and Testing Specifications**

# **D.1 Installation - General Descriptions and Definitions**

#### Addition of new MDF Construction

Each MDF (Main Cross Connect) will have a floor mounted 7' x 19" Rack with a Ladder Tray and Stabilizer, two (2) 24 Modular Port Patch Panel with Siemons wire managers. There will be one (1) 72 port Loaded R.I.C. (Rack mounted Interface Console) with ST connectors. IBM will provide two (2) one meter Fiber Patch Cords, as well as (2) Cat 5e patch cables. All necessary patch cables will be black stranded Category 5e, 4-pair twisted (non-plenum) meeting a minimum of 100MHz test.

#### Addition of new IDF Construction

Each IDF will have one (1) wall mounted rack installed onto a ¾" plywood backboard that has been fire retardant treated. The rack will be grounded by a #6 solid copper directly to red metal or on the TGMB if available. One (1) 24 port Loaded R.I.C. (Rack mounted interface Console) with ST connectors will be installed, as well as, Two (2) 24 port Modular Patch Panel with wire manager. IBM will also install a wall mounted 110 block onto the plywood backboard.

#### **Dual Cable Drops**

- Each dual drop location will be serviced by the following cables: two (2) each
  category 5e, 4-pair cables. The number of locations will vary per site and will be
  determined by IBM and El Paso ISD prior to installation. Each Dual Drop is
  priced using existing pathway only existing pathway definition means IBM will
  not have to core through walls, add conduit, or add panduit.
- The following is the dual drop termination scheme (the equipment to be connected to is assumed to already be in place at the telecommunications closet end) for each cable:

Cable	Termination
Category 5e Data	Rack mounted 48-port Cat 5e RJ45 568B high density patch panel
Category 5e Voice	Siemons Wall mounted 110 block

- IBM will provide wire management to ensure a comprehensive, neat completion of work.
- AS BUILT schematics on work to be performed will be supplied.

#### **Dual Data Drops**

Each dual drop location will be serviced by the following cables: two (2) each
category 5e, 4-pair cables. The number of locations will vary per site and will be
determined by IBM and El Paso ISD prior to installation. Each Dual Drop is
priced using existing pathway only – existing pathway definition means IBM will
not have to core through walls, add conduit, or add panduit.



 The following is the dual drop termination scheme (the equipment to be connected to is assumed to already be in place at the telecommunications closet end) for each cable:

Cable

**Termination** 

Category 5e Data

Rack mounted 24 port modular patch panel

Category 5e Voice

Siemons Wall mounted 110 blocks

- IBM will provide wire management to ensure a comprehensive, neat completion of work.
- AS BUILT schematics on cabling work performed will be supplied.

#### Single Data Drops

- Each single data drop location will be serviced by the following cables: one (1) each category 5e, 4-pair cables. The number of locations will vary per site and will be determined by, IBM and El Paso ISD prior to installation. Each Single Drop is priced using existing pathway only existing pathway definition means IBMwill not have to core through walls, add conduit, or add panduit.
- The following is the dual drop termination scheme (at the user end) for each cable:

Cable

**Termination** 

Category 5e Data

Rack mounted 24 port modular patch panel

- IBM will provide wire management to ensure a comprehensive, neat completion of work.
- AS BUILT schematics on cabling performed will be supplied.

#### Wiring a Lab within a Room - "In-Wall" (IW) Design

- Lab Design cable drops will not exceed 100' in length and shall not include any core or firewall penetrations for this S.O.W.
- Furnish and install up to thirty (30) Category 5e, 4-pair twisted, Plenum solid core
  copper cable drops into a single classroom (Lab). These cable drops will be
  through sheetrock pathways with dropped acoustical ceilings and will be
  suspended onto Caddy Cat.32 "J" Hooks at no more than 5' intervals on red
  metal or on ceiling support positions but not on ceiling grids or ceiling hanging
  wires.
- Furnish and install up to five (5) Quad-Plex Faceplates of single gang construction for W.A.O. (Work Area Outlet) design to deliver service to the students. These faceplates will be flush mounted into Sheetrock walls utilized with Caddy BB-10's.
- Furnish and install one (1) 12" wide x 12" deep swing bracket onto a 3/4" plywood that has been fire retardant treated and is firmly attached to the wall. This Bracket will be grounded to red metal as N.E.C. Code.
- Furnish and install one (1) Tray at bottom of bracket for holding Switch/Hub.
- Furnish and install one (1) Siemons 24-port modular patch panel for final central Horizontal connection point.
- Furnish and install one (1) Siemon double sided Wire Manager for neat and proper pathway placement.
- Furnish and install up to thirty (30) Siemon Angled Max Jacks into faceplates.



- Furnish and install up to sixty (60) Siemon Category 5e Patch Cables in either 1 or 3 meter design for use at the W.A.O. or at the Patch Panel.
- IBM will provide wire management to ensure a comprehensive, neat completion of work.
- AS BUILT schematics on cabling performed will be supplied.

## Wiring a Lab within a Room - "Outer-Wall" (OW) Design

- Lab Design cable drops will not exceed 100' in length and shall not include any core or firewall penetrations for this S.O.W.
- Furnish and install up to thirty (30) Category 5e, 4-pair twisted, Plenum solid core copper cable drops into a single classroom Lab. These cable drops will run down the outer wall with Wiremold proceeding from dropped acoustical ceilings and will be suspended onto Caddy Cat.32 "J" Hooks at no more than 5' intervals on red metal or on ceiling support positions but not on ceiling grids or ceiling hanging wires.
- Furnish and install up to five (5) Quad-Plex Faceplates of single gang construction for W.A.O. (Work Area Outlet) design to deliver service to the students. These faceplates will be surface mounted onto the outside of the wall utilizing Wiremold and Siemons surface mounted boxes.
- Furnish and install one (1) 12" wide x 12" deep swing bracket onto a ¾" plywood that has been fire retardant treated and is firmly attached to the wall. This Bracket will be grounded to red metal as N.E.C. Code.
- Furnish and install one (1) Tray at bottom of bracket for holding Switch/Hub.
- Furnish and install one (1) Siemons 24-port modular patch panel for final central Horizontal connection point.
- Furnish and install one (1) Siemons double sided Wire Manager for neat and proper pathway placement.
- Furnish and install up to thirty (30) Siemons Angled Max Jacks into faceplates.
- Furnish and install up to sixty (60) Siemons Category 5e Patch Cables in either 1 or 3 meter design for use at the W.A.O. or at the Patch Panel.
- IBM will provide wire management to ensure a comprehensive, neat completion of work.
- AS BUILT schematics on cabling performed will be supplied.

# Connecting Campus MDF to Campus IDF (Inside Plant)

- All MC to IC design will be of the indoor type with a maximum length of 350' with not more than 3 inside cores which may be firewalls to deliver pathway.
- Furnish and install up to three hundred fifty (350') 1" Plenum innerduct from the MC to the IC. This pathway will be held by the use of Caddy Cat.32 "J" Hooks installed not more than 5' apart on red metal or on ceiling points not on ceiling grids or ceiling wire.
- Furnish and install up to three hundred fifty (350') of 12 Strand multimode
   (62.5x125um) Plenum Indoor Fiber Optics Cable inside of installed 1" Plenum



- innerduct from the MC to the IC. The Fiber will be terminated onto Siemon Anerobic ST Fittings.
- Furnish and install up to three hundred fifty (350) 50-pair Telephone Plenum Backbone Cable from the MC to the IC and punch down.
- Furnish and install one (1) Zero PFT 3' x 19" Swing Away Rack onto a ¾" plywood backboard that has been fire retardant treated and firmly attached to the wall area.
- Furnish and install two (2) Siemons 110 blocks with legs and C-4's one at the MC Backboard and one at the IC backboard for punchdown of telephone backbone cable.
- Furnish and install up to one (1) 24 port Siemons L.I.U. (Light Guide Interface Unit) with 12 ST Loads at the IC.
- Furnish and install into existing MC, Fiber Cabinet the new terminated ST connections for a final pathway to IC.
- Furnish and install two (2) duplex 3 meter Fiber Optics Patch ST Cables.
- Furnish to purchaser two (2) 10MHz ST to RJ45 Fiber Optics to Copper Media Converters
- Furnish and install up to three (3) Wall Cores for pathway of Fiber and Telephone Backbone Cable.
- IBM will provide wire management to ensure a comprehensive, neat completion
  of work.
- AS BUILT schematics on cabling performed will be supplied.

#### **D.2 Functional Testing**

Functional Testing will be performed in conformance with the following:

- Fiber Meter Transmission and path loss testing (Fiber meter test method). IBM will perform fiber meter testing on all fiber optic cable installed under this SOW. Printed test results will be provided.
- Category 5e Cable Category 5e compliance testing per UL standards. IBM will
  perform Category 5e testing on the Category 5e cable installed under this SOW
  in accordance with EIA/TIA standards. Printed test results will be provided.



# Appendix E

# **Statement of Work Component Pricing**

RESOURCES		Jnit Price
New MDF	\$	3,290.00
New IDF	\$	3,290.00
Connect Campus MDF to Campus IDF	\$	9,689.00
MDF to IDF Interconnect/TIE (turn-key)	\$	15,132.00
Wiring a LAB, 10 drop, inside wall	\$	2,960.00
Wiring a LAB, 20 drop, inside wall	\$	5,921.00
Wiring a LAB, 30 drop, inside wall	\$	7,237.00
Wiring a LAB, 40 drop, inside wall	\$	8,553.00
Wiring a LAB, 10 drop, outside wall	\$	4,276.00
Wiring a LAB, 20 drop, outside wall	\$	6,185.00
Wiring a LAB, 30 drop, outside wall	\$	7,500.00
Wiring a LAB, 40 drop, outside wall	\$	8,815.00
Dual Drop Add (1-10)	\$	428.00
Dual Drop Add (11-24)	\$	388.00
Dual Drop Add (25- >)	\$	362.00
Composite Drop Add (1-10)	\$	730.00
Composite Drop Add (11-24)	\$	691.00
Composite Drop Add (25->)	\$	658.00
Data Drop Add (1-10)	\$	257.00
Data Drop Add (11-24)	\$	244.00
Data Drop Add (25- >)	\$	230.00
Rack mounted, 24 port modular patch panel	\$	125.00
19" x 3' swingout rack	\$	460.00
Installation cost	\$	53.00
Move composite drop	\$	362.00
Move dual drop		296.00
Connect campus MDF w/ portable IDF		
Cost of Termination	\$	1,974.00

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Cost per foot (fiber or copper)	\$	19.75
Wire new portable to existing portable IDF		
Cost of Termination	\$	625.00
Cost per foot	\$	5.90
Wall Cabinet 22"x3ft. W/fan/wLock	\$	1,178.00
MDF Cabinet w/Lock/wfan	\$	2,362.00
Primary Protector	\$	823.00
Wiremold 2700 series Installed (per foot)	\$	3.75
Wiremold 2800 series Installed (per foot)	\$	4.28
Wiremold 2900 series Installed (per foot)	\$	5.60

# EXECUTED at El Paso, Texas on the day and year first above mentioned:

IBM	EL PASO INDEPENDENT SCHOOL DISTRICT
Don Kaisen.	_ fu
Don Kaiser	Yinuo Du
Principal	Executive Director
IBM Global Services	Technology and Information Systems
Houston, Texas	El Paso, Texas
1-18-01	1-18-1
Date	Date

# IBM

# STATEMENT OF WORK FOR EL PASO INDEPENDENT SCHOOL DISTRICT

**FOR** 

**NETWORK ELECTRONICS** 



**JANUARY 18, 2001** 



# STATEMENT OF WORK

#### Statement of Work - Introduction

This section describes the Services that IBM will provide under the terms of the IBM Customer Agreement (ICA) and this Statement of Work (SOW). Specifically, IBM will provide El Paso Independent School District (El Paso ISD) with a set of customized eratable services, with supporting documentation. The details of the Services to be provided are described in this section. These Services will be provided at existing and newly built El Paso ISD locations in El Paso, Texas.

## This Statement of Work is comprised of the following sections:

- 1.0 Assumptions
- 2.0 IBM Responsibilities
- 3.0 El Paso ISD Responsibilities
- 4.0 Deliverable Materials Documentation
- 5.0 Project Schedule
- 6.0 Completion Criteria
- 7.0 Charges
- 8.0 Project Warranty

The following are incorporated in and made part of this Statement of Work:

Appendix A, Deliverable Guidelines / Documentation

Appendix B, Project Change Control Procedure

Appendix C, Equipment

Changes to this Statement of Work will be processed in accordance with the procedure described in Appendix B, "Project Change Control Procedure." The investigation and the implementation of changes may result in modifications to the Schedule, Charges or other terms of this Statement of Work.

This proposal will expire December 31, 2001.



#### 1.0 Assumptions

This Statement of Work and IBM's estimates to perform the Statement of Work are based on the following assumptions. Deviations that arise during the proposed project will be managed through the procedure described in Appendix B, "Project Change Control Procedure."

- IBM is not responsible for developing a new logical network design. The intent of this SOW is to supplement the existing network components using the Districts current design and configuration details.
- 2. The networking system environment consists of El Paso ISD's eighty-five (85) school sites.
- 3. No sites affected by IBM's performance under this SOW have been declared as "Historical Buildings."
- 4. El Paso ISD school sites will be cabled and have closets prepared prior to the installation of network equipment.
- 5. El Paso ISD personnel who will be assigned to this project will have the technical skills necessary to participate in the project.
- 6. El Paso ISD IS and user personnel will be available as described in 3.0, "El Paso ISD Responsibilities."
- El Paso ISD can provide a current and accurate listing of each school site, to include network electronics hardware and software installed, and number of MC and IC wiring closets.
- 8. Work under this Statement of Work will be performed at sites within the El Paso ISD and will not require travel to school sites outside district boundaries.
- Only those components specified in this SOW are to be supplied and installed by IBM.
   Additional components can be specified via the Project Change Control Procedure detailed in Appendix B.
- 10. Configuration services of network electronics in each MDF or IDF will be performed at one time.
- 11. Work under this contract will be performed during school hours (7:00 a.m. and 4:00 p.m.) unless otherwise mutually agreed upon by IBM and El Paso ISD.
- 12. Work to be performed at specific sites will be mutually agreed to and scheduled with IBM and El Paso ISD at least ten (10) business days prior to the commencement of the work.
- 13. IBM and our subcontractor will have unlimited, unrestricted access to all buildings. Any security requirements inclusive of guards, security codes/access codes, lighting and internal access and/or central monitoring are the responsibility of El Paso ISD.
- 14. IBM will be provided with access badges, keys and combinations or escorts to perform the work described in this SOW. Any delay encountered due to unavailability of buildings may result in additional charges being incurred by El Paso ISD. If this situation arises, it will be addressed via the Project Change Control Procedure detailed in Appendix B.
- 15. Adequate wall space/wiring closet space will be made available to IBM for the purpose of placing MDF/IDF products and equipment installed under this agreement. It is understood by IBM and El Paso ISD that any delay encountered due to insufficient wall

Page 3



- space/insufficient wiring closet space may result in time delays and additional charges incurred by El Paso ISD. If this situation arises, it will be addressed via the Project Change Control Procedure detailed in Appendix B.
- 16. It is understood by El Paso ISD and IBM that this SOW is based upon the Start Date provided below. In the event this date is not achieved, IBM reserves the right to extend the projected project End Date on a working day for working day basis, and as mutually agreed upon by IBM and El Paso ISD via the Project Change Control Procedure detailed in Appendix B.
- 17. It is understood by El Paso ISD and IBM that this SOW and the pricing associated with this SOW are based upon the award of the total proposed SOW described in this document. The work described in this SOW will be performed during one continuous phase.
- 18. El Paso ISD will provide remote access to the EPISD network for maintenance support.
- 19. This Statement of Work applies only to 90% eligible buildings identified in FCC Form 471.
- 20. All non-IBM products must be approved by IBM's Product Safety Review Board prior to IBM placing your order. If any product does not meet our product safety specifications, IBM will work with you to identify an alternate product. Procurement of an alternate product will occur only upon your approval.

#### **Exclusions from this Statement of Work**

- 1. IBM is not responsible under this SOW for the identification or correction of any existing safety and/or code violations, whether federal, state or local, including but not limited to fire and electrical codes. If IBM should discover any safety and/or code violations during the course of this project, IBM will notify El Paso ISD of the problem. IBM will not be required to proceed with its work under this SOW until El Paso ISD remedies such violation, nor will IBM be responsible for delays to the work caused by such violation.
- On-going network operations and Coordination are not included in this Statement of Work. IBM would be pleased to respond to El Paso ISD for the addition of these services.
- 3. Relocation and testing of existing computers, telecommunications, or CCTV equipment(s) or systems are not required.
- 4. Removal of existing telecommunications or CCTV cabling is not required.
- 5. No data Media Converters are being supplied by this Statement of Work.
- 6. Installation of any hardware, software, and network electronics not specified in this SOW (e.g., workstations, servers, printers, routers, DSUs/CSUs, repeaters, modulators) is the responsibility of El Paso ISD.
- 7. It is understood by El Paso ISD and IBM that all matters relating to physical construction of new wiring closets/equipment locations and retrofits for existing wiring closets/equipment locations, (general construction build out, HVAC, electrical, lighting, construction permits) is the responsibility of El Paso ISD.



## 2.0 IBM Responsibilities

#### 2.1 Project Coordination

Task Description: The objective of this task is to provide technical direction, maintain project control and to establish a framework for project communications, reporting, procedural, and contractual activity for the IBM tasks described. This task consists of the following activities:

- Establish and coordinate IBM efforts with the El Paso ISD Project Coordinator.
- Develop and maintain work plans for the performance of IBM responsibilities.
- Administer the Change Control Procedures.
- Maintain communications and review progress with the El Paso ISD Project Coordinator and team members during status meetings.
- Prepare and submit written Monthly Status Reports of IBM activities to the El Paso ISD Project Coordinator.

Completion Criteria: This task will be considered complete when the other tasks identified under IBM Responsibilities have been completed and the Final Status Report has been delivered to the El Paso ISD Project Coordinator.

Deliverables/Documentation: Monthly Status Reports.

#### 2.2 Perform Site Survey

**Description:** The objective of this task is to visit the EPISD locations and perform the site survey.

Completion: This task will be complete when all site visits are completed and all site survey documentation is provided to EPISD (one softcopy and one hardcopy of the documentation).

Deliverable/Documentation: Site Survey Documentation

#### 2.3 Installation and Configuration of Network Electronics Equipment

**Description:** The objective of this task is to configure and install up to eighty-five (85), Cisco Route Switch Modules as well up to twenty-five (25) Cisco 5509 Chassis switches and up to 585 Cisco Network Switches. The Subtasks are:

- 1. Provide Hardware as listed in Appendix C.
- 2. Deliver each Switch to its designated location.
- 3. Install Cisco network electronics hardware.
- 4. Perform power on system test.
- 5. Configure the Cisco switches to the local area and wide area networks.
- 6. Establish Layer 3 switching across local EAN and LAN.
- 7. Perform verification of network connection.



8. Verify access to the Internet.

Completion: This task will be complete when IBM configures and installs the equipment as described.

Deliverables Documentation: None

## 2.4 Provide overall Site Installation Documentation

**Description:** The objective of this task is to assemble the documentation describing the Network electronics installation for the all sites. This document will include configurations parameters for each site, as well as a list of part numbers, quantity and serial numbers of electronics installed at each site.

**Completion:** This task will be complete when IBM delivers the Site Network Installation Document to EPISD.

Deliverables Documentation: Site Network Installation Documentation

#### 3.0 El Paso ISD Responsibilities

The responsibilities listed in this section are in addition to those responsibilities specified in the IBM Customer Agreement and are to be provided at no charge to IBM. IBM's performance is predicated upon the following responsibilities being fulfilled by El Paso ISD.

#### 3.1 General Responsibilities

- Assign a Project Coordinator to represent El Paso ISD regarding this contract.
- Provide full access to all El Paso ISD school locations as required under this SOW.
- Communicate with appropriate El Paso ISD personnel at your location of the work to take place and obtain their approval if necessary.
- Provide floor diagrams of affected campus locations in 8 1/2 x 11 hardcopy format.
- Provide all the necessary closet and/or equipment areas for location of network electronics, racks and cabinets as described within this SOW.
- Provide all necessary power and environmental support to accommodate all IBM and El Paso ISD provided equipment.
- Inform IBM of any change in network requirements in accordance with the IBM Project Change Control Procedure, Appendix B.

#### 3.2 Project Coordination

Prior to the start of this Statement of Work under the Agreement, El Paso ISD will designate a person, called the El Paso ISD Project Coordinator, to whom IBM communications will be addressed and who has the authority to act for El Paso ISD in all aspects of the contract.

The El Paso ISD Project Coordinator's responsibilities include:

- Provide liaison between all project participants.
- Manage the Project Change Control Procedure for El Paso ISD.
- Attend project status meetings.
- Obtain and provide information, data, decisions and approvals, within three working days of IBM's request unless EPISD and IBM agree to an extended response time.



 Help resolve project issues and escalate issues within the EPISD organization, as necessary.

#### 3.3 Space, Facilities and Utilities

Provide installation facilities for IBM provided equipment. El Paso ISD is responsible for space allocation, HVAC and electrical considerations. El Paso ISD is responsible for providing power, light and water necessary for the performance of this project.

#### 3.4 Security and Laws

El Paso ISD will identify and make the interpretation of any applicable federal, state, and local laws, regulations and statutes to see that the services provided by IBM comply.

#### 4.0 Deliverables/ Documentation

The following items will be delivered to El Paso ISD under this Statement of Work. See Appendix A, "Deliverable Guidelines" for a description of each deliverable. Deliverable materials are Type II; there are no Type I deliverable materials.

- Status Report
- Site Survey Documentation
- Site Network Installation Documentation

#### 5.0 Schedule

#### 5.1 Project Dates

- Start Date July 1, 2001.
- End Date June 30, 2002

#### 5.2 Project Delays

IBM will not be responsible for delays or additional requirements imposed by any government agencies or unforeseen conditions such as delays in the progress of the project by your acts or neglect or the acts or neglect of your employees or separate contractors employed by you, by changes ordered in the project not caused by the fault of IBM, by labor disputes, fire, unusual delays in transportation, adverse weather conditions not reasonably anticipatable, unavoidable casualties or other causes beyond IBM's control or by another cause which you and IBM agree is justifiable, the contract time shall be reasonably extended and the charges adjusted, if necessary, by Change Authorization.

# 6.0 Completion Criteria

IBM shall have fulfilled its obligations under this Statement of Work when any one of the following occurs:

- IBM accomplishes the tasks described in section 2.0, "IBM Responsibilities."
- El Paso ISD terminates the Project in accordance with the provisions of the IBM Customer Agreement.
- The End Date for the contract is reached.



#### 7.0 Charges

**TOTAL CHARGES:** 

\$11,636,600

#### This price does not include charges for:

- Items involving, but not limited to tests, inspections, concealed or unknown conditions or other unanticipated events beyond our control.
- Increases in the Work due to plan checks or field inspections by building or planning department. In addition to the charge described above, you agree to pay us for any additional charges resulting from changes to this project scope, when approved via the Project Change Control Procedure detailed in Appendix B. IBM will submit invoices per the payment schedule as stated in Section 7.1.

IBM understands that the decision to implement this project is contingent upon award to the District of funding under the E-Rate program. IBM will not begin work on this project without written notification from EPISD that funding has been approved and that work should begin. If such notification has not been received by December 31, 2001, at Vendor's option, Vendor may terminate this Statement of Work or implement an extension of this Statement of Work, as well as changes in pricing or other terms and conditions as may be required, via the Project Change Control Procedure outlined in Appendix B.

#### 7.1 Payments Schedule

IBM will invoice EPISD monthly for services provided and materials delivered to the IBM staging site during that month. Payment is due upon receipt of invoice by the EI Paso ISD Accounts Payable Department.

#### 8.0 Project Warranty

IBM warrants to the Owner that materials and equipment furnished under this Agreement will be new and that Work will be of good quality, free from improper workmanship and defective materials in conformance to applicable drawings and specifications.

IBM does not guarantee or warrant, either express or implied, the materials used in workmanship of supplies, materials, equipment or machinery manufactured by third parties and furnished and installed under this Agreement. IBM shall endeavor to obtain from all vendors and suppliers and assign to Owner the customary warranties and guaranties of such vendors and suppliers with respect thereto. IBM shall render reasonable assistance to Owner when requested in order to enable the Owner to enforce such warranties and guaranties by third party manufacturers and suppliers.

There are no other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.



# Appendix A

#### Deliverable / Documentation Guidelines

#### A1. Monthly Status Reports

Purpose: IBM will provide Status Reports monthly during the project to describe the activities, which took place during that period. Significant accomplishments, milestones and problems will be described.

**Delivery:** One (1) hard copy will be delivered to the EPISD Project Coordinator within five (5) working days following the reporting period.

Content: The report will consist of the following, as appropriate:

- Activities performed during the reporting period
- Activities planned for the next reporting period
- Project change control summary
- · Problems, concerns, and recommendations
- Billing summary

#### A.2 Site Survey Document - Documentation

**Purpose:** IBM will provide a Site Survey Document for EPISD location detailing locations, requirements, and special considerations.

**Delivery:** One (1) hard copy of the document and on (1) electronic copy will be delivered to the El Paso ISD Project Coordinator.

**Content:** The report will consist of the following, as appropriate:

- Site general information
- Site special considerations
- Equipment room locations and requirements

#### A.3 Network Installation Document

Purpose: IBM will provide a Network Installation Document summarizing the installation of equipment as specified in Appendix C.

**Delivery:** One (1) hard copy of the document and one (1) electronic copy will be delivered to the El Paso ISD Project Coordinator.

Content: The report will consist of the following, as appropriate:

- Equipment List with Serial Numbers
- Configuration Information
- Physical location information



# Appendix B

# **Project Change Control Procedure**

When both of us agree to a change in this Statement of Work, a written description of the agreed change (called a "Change Authorization") will be prepared, which both parties must sign. The Change Authorization will describe the change, the rationale for the change, and specify any change in the charges, schedule or other terms. Depending on the extent and complexity of the requested changes, IBM may charge for the effort required to analyze it. When charges are necessary in order to analyze a change, IBM will provide a written estimate and begin the analysis on written authorization. The terms of a mutually agreed upon Change Authorization will prevail over those of this Statement of Work or any previous Change Authorization.

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# Appendix C

# **Equipment:**

IBM will provide the following internal connections equipment and associated documentation in accordance with the terms and conditions of this SOW:

## Cisco 6509/3508/3548 Switches

PRODUCT NO.	DESCRIPTION	QTY
WS-C5509-S3-E3	Catalyst 5509 with Supervisor III NFFC II, one AC Power Supply	25
SFC5K-SUP3-4.3.1	Catalyst 5509 Supervisor 3 Flash Image Release 4.3.1	25
SWC5K-BEFS-4X	Catalyst 5000 Rel. 4x SW License, Enhanced Feature Set	25
WS-U5534-GESX- BU	Dual Port 1000BaseSX Uplink module for Supervisor III	25
WS-X5225R	24 Port 10/100TX Backbone Switching (FEC, 802.1Q/ISL, RJ-45)	75
WS-X5403	C5000 Gigabit Ethernet Switch Module w/o GBICs (3 Port)	25
WS-G5484	1000Base-SX Short Wavelength GIBC	75
CON-SNT-WS- C5505	SNT Service, Catalyst 5509, 9 Slot	25
WS-F5541	Catalyst 5000 Route Switch Module Feature Card for Sup II G & III G	85
WS-C3548-XL-EN	48 Port 10/100Tx plus 2-GBIC Ports Enterprise	500
WS-X3500	Gigastack GBIC and Cable	500
WS-G3508G-XL-EN	8 Port 1000Base GBIC Switch Enterprise	85
WS-X3500	Gigastack GBIC and Cable	85
WS-G5484	1000BaseSX GBIC	85
WS-C3512-XL-EN	12 Port 10/100Tx plus 2-GBIC Ports Enterprise	500
WS-C6509	Cisco Catalyst Switch	2



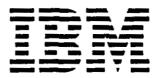
EXECUTED at El Paso, Texas on the day and year first above mentioned:			
IBM	EL PASO INDEPENDENT SCHOOL DISTRICT		
Donkaiser	Lo fun		
Don Kaiser	Yinuo Du		
Principal	Executive Director		
IBM Global Services	Technology and Information Systems		
Houston, Texas	El Paso, Texas		
1-18-01	1-18-1		
Date	Date		
•			

# **IBM**

# STATEMENT OF WORK FOR EL PASO INDEPENDENT SCHOOL DISTRICT

**FOR** 

SERVER UPGRADE



**JANUARY 18, 2001** 

# STATEMENT OF WORK

#### Statement of Work - Introduction

This section describes the Services that IBM will provide under the terms of the IBM Customer Agreement (ICA) and this Statement of Work (SOW). Specifically, IBM will provide El Paso Independent School District (El Paso ISD) with a set of customized e-ratable services, with supporting documentation. The details of the Services to be provided are described in this section. These Services will be provided at existing and newly built El Paso ISD locations in El Paso, Texas.

# This Statement of Work is comprised of the following sections:

- 1.0 Assumptions
- 2.0 IBM Responsibilities
- 3.0 El Paso ISD Responsibilities
- 4.0 Deliverable Materials Documentation
- 5.0 Project Schedule
- 6.0 Completion Criteria
- 7.0 Charges
- 8.0 Project Warranty

The following are incorporated in and made part of this Statement of Work:

Appendix A, Deliverable / Documentation Guidelines

Appendix B, Project Change Control Procedure

Appendix C, Equipment and Software

Changes to this Statement of Work will be processed in accordance with the procedure described in Appendix B, "Project Change Control Procedure." The investigation and the implementation of changes may result in modifications to the Schedule, Charges or other terms of this Statement of Work.

This Proposal will expire December 31, 2001

#### 1.0 Assumptions

This Statement of Work and IBM's estimates to perform the Statement of Work are based on the following assumptions. Deviations that arise during the proposed project will be managed through the procedure described in Appendix B, "Project Change Control Procedure."

- IBM is not responsible for developing a new logical network design. The intent of this SOW is to supplement the existing network components using the Districts current design and configuration details.
- 2. The networking system environment consists of El Paso ISD's up to ninety (90) school sites.
- 3. No sites affected by IBM's performance under this SOW have been declared as "Historical Buildings."
- 4. El Paso ISD personnel who will be assigned to this project will have the technical skills necessary to participate in the project.
- 5. El Paso ISD IS and user personnel will be available as described in 3.0, "El Paso ISD Responsibilities."
- 6. El Paso ISD can provide a current and accurate listing of each school site.
- 7. Work under this Statement of Work will be performed at sites within the El Paso ISD and will not require travel to school sites outside district boundaries.
- 8. Only those components specified in this SOW are to be supplied and installed by IBM. Additional components can be specified via the Project Change Control Procedure detailed in Appendix B.
- 9. Configuration services of servers will be performed at one time.
- 10. Work under this contract will be performed during school hours (7:00 a.m. and 4:00 p.m.) unless otherwise mutually agreed upon by IBM and El Paso ISD.
- 11. Work to be performed at specific sites will be mutually agreed to and scheduled with IBM and El Paso ISD at least ten (10) business days prior to the commencement of the work.
- 12. IBM and our subcontractor will have unlimited, unrestricted access to all buildings. Any security requirements inclusive of guards, security codes/access codes, lighting and internal access and/or central monitoring are the responsibility of El Paso ISD.
- 13. IBM will be provided with access badges, keys and combinations or escorts to perform the work described in this SOW. Any delay encountered due to unavailability of buildings may result in additional charges being incurred by El Paso ISD. If this situation arises, it will be addressed via the Project Change Control Procedure detailed in Appendix B.
- 14. Adequate space will be made available to IBM for the purpose of placing Servers installed under this agreement. It is understood by IBM and El Paso ISD that any delay encountered due to insufficient space may result in time delays and additional charges incurred by El Paso ISD. If this situation arises, it will be addressed via the Project Change Control Procedure detailed in Appendix B.
- 15. It is understood by El Paso ISD and IBM that this SOW is based upon the Start Date provided below. In the event this date is not achieved, IBM reserves the right to extend

- the projected project End Date on a working day for working day basis, and as mutually agreed upon by IBM and El Paso ISD via the Project Change Control Procedure detailed in Appendix B.
- 16. It is understood by El Paso ISD and IBM that this SOW and the pricing associated with this SOW are based upon the award of the total proposed SOW described in this document. The work described in this SOW will be performed during one continuous phase.
- 17. This Statement of Work applies only to 90% eligible buildings identified in FCC Form 471.
- 18. All non-IBM products must be approved by IBM's Product Safety Review Board prior to IBM placing your order. If any product does not meet our product safety specifications, IBM will work with you to identify an alternate product. Procurement of an alternate product will occur only upon your approval.

#### **Exclusions from this Statement of Work**

- 1. IBM is not responsible under this SOW for the identification or correction of any existing safety and/or code violations, whether federal, state or local, including but not limited to fire and electrical codes. If IBM should discover any safety and/or code violations during the course of this project, IBM will notify El Paso ISD of the problem. IBM will not be required to proceed with its work under this SOW until El Paso ISD remedies such violation, nor will IBM be responsible for delays to the work caused by such violation.
- On-going network operations and Coordination are not included in this Statement of Work. IBM would be pleased to respond to El Paso ISD for the addition of these services.
- 3. Relocation and testing of existing computers, telecommunications, or CCTV equipment(s) or systems are not required.
- 4. Removal of existing telecommunications or CCTV cabling is not required.
- 5. No data Media Converters are being supplied by this Statement of Work.
- 6. Installation of any hardware, software, and network electronics not specified in this SOW (e.g., workstations, servers, printers, routers, DSUs/CSUs, repeaters, modulators) is the responsibility of El Paso ISD.
- 7. It is understood by EI Paso ISD and IBM that all matters relating to physical construction of new wiring closets/equipment locations and retrofits for existing wiring closets/equipment locations, (general construction buildout, HVAC, electrical, lighting, construction permits) is the responsibility of EI Paso ISD.

## 2.0 IBM Responsibilities

#### 2.1 Project Coordination

**Task Description:** The objective of this task is to provide technical direction, maintain project control and to establish a framework for project communications, reporting, procedural, and contractual activity for the IBM tasks described. This task consists of the following activities:

- Establish and coordinate IBM efforts with the El Paso ISD Project Coordinator.
- Develop and maintain work plans for the performance of IBM responsibilities.
- · Administer the Change Control Procedures.
- Maintain communications and review progress with the El Paso ISD Project Coordinator and team members during status meetings.
- Prepare and submit written Monthly Status Reports of IBM activities to the El Paso ISD Project Coordinator.

Completion Criteria: This task will be considered complete when the other tasks identified under IBM Responsibilities have been completed and the Final Status Report has been delivered to the El Paso ISD Project Coordinator.

Deliverables / Documentation: Monthly Status Reports.

#### 2.2 Perform Site Survey

**Description:** The objective of this task is to visit the EPISD locations and perform the site survey.

**Completion:** This task will be complete when all site visits are completed and all site survey documentation is provided to EPISD (one softcopy and one hardcopy of the documentation).

Deliverable / Documentation: Site Survey Documentation

#### 2.3 Installation of Servers

**Description:** The objective of this task is to configure and install up to Ninety (90) IBM NetFinity Servers with Operating Software Novell 5.0 NetWare. The Subtasks are:

- 1. Provide Hardware and Operating Software as listed in Appendix C.
- 2. Deliver each Server to its designated location.
- 3. Install IBM server hardware.
- 4. Perform power on system test.
- 5. Mirror the 2 Hard Drives on the Servers
- 6. Attach server to the existing Ethernet network and configure network.
- 7. Install Operational Software Novell 5.0 server and implement NDS.

Completion: This task will be complete when IBM configures and installs the equipment as described.

Deliverables / Documentation: Site Server Installation Document.

# 3.0 El Paso ISD Responsibilities

The responsibilities listed in this section are in addition to those responsibilities specified in the IBM Customer Agreement and are to be provided at no charge to IBM. IBM's performance is predicated upon the following responsibilities being fulfilled by El Paso ISD.